

10/809.312 LMM  
Dialog 8/1/07

? d s  
Set Items Description  
S1 250 S ((ATF5 OR ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5) OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NTAZIPATF5 OR NTAZIP-ATF-5))  
S2 22 S S1 AND ((STEM OR PROGENITOR) (9N) (DIFFERENTIATE OR DIFFERENTIATION OR MATURE OR MATURATION))  
S3 3 S S2 AND ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (5N) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL)))  
S4 3 RD (unique items)  
S5 15 S S1 AND ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (S) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL)))  
S6 6 RD (unique items)  
S7 2 S S6 NOT PD>030404  
S8 0 S ((ATF5 OR ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5) OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NTAZIPATF5 OR NTAZIP-ATF-5)) (S) (DOMINANT ADJ NEGATIVE)  
S9 25 S ((ATF5 OR ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5) OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NTAZIPATF5 OR NTAZIP-ATF-5)) (S) (DOMINANT (W) NEGATIVE)  
S10 7 RD (unique items)  
S11 6 S S10 NOT PD>030404  
S12 407 S ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (S) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL))) (S) (EGFP OR (GREEN (W) FLUORESCENT (W) PROTEIN))  
S13 93 S ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (S) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL))) (9N) (EGFP OR (GREEN (W) FLUORESCENT (W) PROTEIN))  
S14 62 S S13 NOT PD>030404  
S15 1 S S14 AND (((DIFFERENTIATED OR DIFFERENTIATE) (9N) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL))) (9N) (EGFP OR (GREEN (W) FLUORESCENT (W) PROTEIN)))

?

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\*File 185: The file has been reloaded to add archive records back to 1864. Accession numbers have changed.

[File 357] **Derwent Biotech Res.** \_1982-2007/Jul W4

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[File 369] **New Scientist** 1994-2007/Jul W2

(c) 2007 Reed Business Information Ltd. All rights reserved.

[File 370] **Science** 1996-1999/Jul W3

(c) 1999 AAAS. All rights reserved.

\*File 370: This file is closed (no updates). Use File 47 for more current information.

[File 391] **Beilstein Database - Reactions** 2007/Q1

(c) 2007 Beilstein GmbH. All rights reserved.

[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec

(c) 2006 The Thomson Corp. All rights reserved.

[File 467] **ExtraMED(tm)** 2000/Dec

(c) 2001 Informania Ltd. All rights reserved.

? s ((ATF5 or ATF-5 or (activating (w) transcription (w) factor-5) or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5))

160 ATF5  
2 ATF-5  
406157 ACTIVATING  
1753908 TRANSCRIPTION  
163 FACTOR-5  
1 ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5  
48 ATFX  
0 ATF-X  
4 ATF-7  
39 ATF7  
0 NTAZIP-ATF5  
0 NTAZIPATF5  
0 NTAZIP-ATF-5

S1 250 S ((ATF5 OR ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5) OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NTAZIPATF5 OR NTAZIP-ATF-5))

? s s1 and ( (stem or progenitor) (9n) (differentiate or differentiation or mature or maturation))

250 S1  
1031576 STEM  
201873 PROGENITOR  
273438 DIFFERENTIATE  
1597808 DIFFERENTIATION  
713823 MATURE  
567629 MATURATION  
92036 (STEM OR PROGENITOR) (9N) (((DIFFERENTIATE OR DIFFERENTIATION) OR MATURE) OR MATURATION)  
S2 22 S S1 AND ( (STEM OR PROGENITOR) (9N) (DIFFERENTIATE OR DIFFERENTIATION OR

MATURE OR MATURATION))

? .s S2 and ((differentiated or differentiate or mature or maturation) (5n) ((neural (w) cell) or astrocyte or (astroglial (w) cell) or neuron or oligodendrocyte or (oligodendroglial (w) cell) or (schwann(w) cell)))

Processing

Processing

Processing

Processing

Processing

Processing

Processing

Processing

Processing

22	S2
462026	DIFFERENTIATED
273438	DIFFERENTIATE
713823	MATURE
567629	MATURATION
2682336	NEURAL
14859605	CELL
30996	NEURAL (W) CELL
73981	ASTROCYTE
22099	ASTROGLIAL
14859605	CELL
2267	ASTROGLIAL (W) CELL
427188	NEURON
33012	OLIGODENDROCYTE
9729	OLIGODENDROGLIAL
14859605	CELL
967	OLIGODENDROGLIAL (W) CELL
51964	SCHWANN
14859605	CELL
27937	SCHWANN (W) CELL
5984	((DIFFERENTIATED OR DIFFERENTIATE) OR MATURE) OR MATURATION)...

S3 3 S S2 AND ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (5N) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL)))

? rd

>>>W: Duplicate detection is not supported for File 391.

Records from unsupported files will be retained in the RD set.

S4 3 RD (UNIQUE ITEMS)

? t s4/medium/all

4/3/1 (Item 1 from file: 73) Links

Fulltext available through: USPTO Full Text Retrieval Options

EMBASE

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13219422 EMBASE No: 2005258269

**ATF5 regulates the proliferation and differentiation of oligodendrocytes**

Mason J.L.; Angelastro J.M.; Ignatova T.N.; Kukekov V.G.; Lin G.; Greene L.A.; Goldman J.E.

J.L. Mason, Thomas Jefferson University, Farber Institute for Neurosciences, JHN Building, 900 Walnut Street, #400, Philadelphia, PA 19107 United States

**Author Email:** jeffrey.mason@jefferson.edu

Molecular and Cellular Neuroscience ( MOL. CELL. NEUROSCI. ) ( United States ) 2005 , 29/3 (372-380)

4/3/2 (Item 1 from file: 357) [Links](#)

Fulltext available through: [ScienceDirect](#)

Derwent Biotech Res.

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0398996 DBA Accession No.: 2006-12492 PATENT

**Regulating proliferation of or differentiation of a stem cell or a progenitor cell into a differentiated cell comprises modulating the expression or function of ATF5 in the cell cell culture differentiation and proliferation for disease therapy and tissue engineering**

**Author:** GREENE L A; ANGELASTRO J M

**Patent Assignee:** GREENE L A; ANGELASTRO J M 2006

**Patent Number:** US 20060088934 **Patent Date:** 20060427 **WPI Accession No.:** 2006-299473 (200631)

**Priority Application Number:** US 971483 **Application Date:** 20041022

**National Application Number:** US 971483 **Application Date:** 20041022

**Language:** English

4/3/3 (Item 2 from file: 357) [Links](#)

Fulltext available through: [ScienceDirect](#)

Derwent Biotech Res.

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0376920 DBA Accession No.: 2005-22626 PATENT

**Promoting differentiation of neural stem cell or neural progenitor cell into differentiated neural cell , involves inhibiting b-zip transcription factor in cell neural stem cell culture and differentiation promotion for use in disease therapy and tissue engineering**

**Author:** GREENE L A; ANGELASTRO J M

**Patent Assignee:** GREENE L A; ANGELASTRO J M 2005

**Patent Number:** US 20050164384 **Patent Date:** 20050728 **WPI Accession No.:** 2005-521426 ( 200553 )

**Priority Application Number:** US 809312 **Application Date:** 20040324

**National Application Number:** US 809312 **Application Date:** 20040324

**Language:** English

? S S1 AND ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (S) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL)))

Processing

Processing

Processing

Processing

Processing

Processing

Processing

250	S1
462026	DIFFERENTIATED
273438	DIFFERENTIATE
713823	MATURE
567629	MATURATION
2682336	NEURAL
14859605	CELL
30996	NEURAL (W) CELL
73981	ASTROCYTE
22099	ASTROGLIAL
14859605	CELL
2267	ASTROGLIAL (W) CELL
427188	NEURON
33012	OLIGODENDROCYTE
9729	OLIGODENDROGLIAL
14859605	CELL
967	OLIGODENDROGLIAL (W) CELL
51964	SCHWANN
14859605	CELL
27937	SCHWANN (W) CELL
27444	((DIFFERENTIATED OR DIFFERENTIATE) OR MATURE) OR MATURATION)...

S5 15 S S1 AND ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (S) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL)))

? rd

>>>W: Duplicate detection is not supported for File 391.  
Records from unsupported files will be retained in the RD set.

S6 6 RD (UNIQUE ITEMS)

? s s6 not pd>030404

Processing

Processing

>>>W: One or more prefixes are unsupported  
or undefined in one or more files.

6 S6

12659842 PD>030404

S7 2 S S6 NOT PD>030404

? t s7/medium

7/3/1 (Item 1 from file: 5) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

Biosis Previews(R)

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18485864 Biosis No.: 200510180364

**ATF5 regulates the proliferation and differentiation of oligodendrocytes**

**Author:** Mason Jeffrey L (Reprint); Angelastro James M; Ignatova Tatyana N; Kukekov Valery G; Lin Grace; Greene Lloyd A; Goldman James E

**Author Address:** Thomas Jefferson Univ, Farber Inst Neurosci, 900 Walnut St, 400 JHN Bldg, Philadelphia, PA 19107 USA\*\*USA

**Author E-mail Address:** jeffrey.mason@jefferson.edu

**Journal:** Molecular and Cellular Neuroscience 29 (3): p 372-380 JUL 2005 2005

**ISSN:** 1044-7431

**Document Type:** Article

**Record Type:** Abstract

**Language:** English

? s ((ATF5 or ATF-5 or (activating (w) transcription (w) factor-5) or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5)) same (dominant adj negative)  
>>>W: Invalid syntax  
>>>E: There is no result

? s ((ATF5 or ATF-5 or (activating (w) transcription (w) factor-5) or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5)) (s) (dominant adj negative)

160 ATF5  
2 ATF-5  
406157 ACTIVATING  
1753908 TRANSCRIPTION  
163 FACTOR-5  
1 ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5  
48 ATFX  
0 ATF-X  
4 ATF-7  
39 ATF7  
0 NTAZIP-ATF5  
0 NTAZIPATF5  
0 NTAZIP-ATF-5  
0 DOMINANT ADJ NEGATIVE

S8 0 S ((ATF5 OR ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5) OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NTAZIPATF5 OR NTAZIP-ATF-5)) (S) (DOMINANT ADJ NEGATIVE)

? s ((ATF5 or ATF-5 or (activating (w) transcription (w) factor-5) or ATFX or ATF-X or ATF-7 or ATF7 or NTAzip-ATF5 or NTAzipATF5 or NTAzip-ATF-5)) (s) (dominant (w) negative)

160 ATF5  
2 ATF-5  
406157 ACTIVATING  
1753908 TRANSCRIPTION  
163 FACTOR-5  
1 ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5  
48 ATFX  
0 ATF-X  
4 ATF-7  
39 ATF7  
0 NTAZIP-ATF5  
0 NTAZIPATF5  
0 NTAZIP-ATF-5  
869053 DOMINANT  
3273339 NEGATIVE

S9 25 S ((ATF5 OR ATF-5 OR (ACTIVATING (W) TRANSCRIPTION (W) FACTOR-5) OR ATFX OR ATF-X OR ATF-7 OR ATF7 OR NTAZIP-ATF5 OR NTAZIPATF5 OR NTAZIP-ATF-5)) (S) (DOMINANT (W) NEGATIVE)

? rd  
>>>W: Duplicate detection is not supported for File 391.  
Records from unsupported files will be retained in the RD set.  
S10 7 RD (UNIQUE ITEMS)

? s s10 not pd>030404  
Processing  
>>>W: One or more prefixes are unsupported  
or undefined in one or more files.  
7 S10  
12659842 PD>030404  
S11 6 S S10 NOT PD>030404

? t s11/medium/all

? t s3/all/2  
>>>W: 'ALL' not allowed as format type

? t s3/full/2

*Not  
Print*

3/9/2 (Item 2 from file: 5) **Links**

Fulltext available through: [ScienceDirect](#)

Biosis Previews(R)

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17827381 **Biosis No.:** 200400195014

**The bzip transcription factor, ATF5, regulates glial development.**

**Author:** Mason J L (Reprint); Angelastro J M (Reprint); Lin G (Reprint); Greene L A (Reprint); Goldman J E (Reprint)

**Author Address:** Dept. Pathology, Columbia Univ, New York, NY, USA\*\*USA

**Journal:** Society for Neuroscience Abstract Viewer and Itinerary Planner 2003 p Abstract No. 141.9 2003 2003

**Medium:** e-file

**Conference/Meeting:** 33rd Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 08-12, 2003; 20031108

**Sponsor:** Society of Neuroscience

**Document Type:** Meeting; Meeting Abstract

**Record Type:** Abstract

**Language:** English

**Abstract:** We show here that the bzip transcription factor, ATF5, inhibits glial development in vitro and in vivo. ATF5 is expressed within the nucleus of nestin+ progenitors in embryonic cultures and is down regulated as these cells begin to differentiate into mature GFAP+ astrocytes. Retroviral-induced over-expression of ATF5 inhibits differentiation of the progenitors and maintains them in the cell cycle, whereas loss of expression or function conferred by ATF5 siRNA or dominant- negative ATF5 significantly increases the percentage of these cells differentiating into GFAP+ astrocytes. Similarly, O4+ progenitors isolated from the neonatal forebrain also express ATF5 within their nuclei. As these O4+ cells differentiate into O1+ oligodendrocytes, the expression of ATF5 is not lost, but rather shifts from the nucleus to the cytoplasm. Over-expression of ATF5 inhibits the differentiation of O4+ progenitors into O1+ oligodendrocytes, while retroviral-induced loss of ATF5 function significantly increases the number of these progenitors that differentiate into mature oligodendrocytes. ATF5 has similar effects on glial development in vivo. Retroviral-induced loss of ATF5 function in progenitors within the subventricular zone of postnatal day 2 rats accelerates the differentiation of these cells into either mature astrocytes or oligodendrocytes after they migrate into the corpus callosum. These results indicate that ATF5 regulates glial development by inhibiting the differentiation of neural progenitors into astrocytes and oligodendrocytes and maintaining the progenitors in the cell cycle.

#### **DESCRIPTORS:**

**Major Concepts:** Cell Biology; Nervous System--Neural Coordination

**Biosystematic Names:** Muridae--Rodentia, Mammalia, Vertebrata, Chordata, Animalia

**Organisms:** rat (Muridae)--mature

**Organisms: Parts Etc:** astrocytes--nervous system; corpus callosum--nervous system; cytoplasm; forebrain--nervous system; neural progenitors--nervous system; oligodendrocytes--nervous system; subventricular zone--nervous system

**Common Taxonomic Terms:** Animals; Chordates; Mammals; Nonhuman Vertebrates; Nonhuman Mammals;

11/3/3 (Item 3 from file: 5) [Links](#)

Fulltext available through: [ScienceDirect](#)

Biosis Previews(R)

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17792853 Biosis No.: 200400160194

**Functional expression of ATF5 in ventricular zone neuronal progenitors during neocortical development.**

**Author:** Castaneda-Castellanos D R (Reprint); Angelastro J M; Kriegstein A R; Greene L A

**Author Address:** Physiology and Cell Biophysics, Columbia Univ., New York, NY, USA\*\*USA

**Journal:** Society for Neuroscience Abstract Viewer and Itinerary Planner 2003 p Abstract No. 31.14 2003 2003

**Medium:** e-file

**Conference/Meeting:** 33rd Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 08-12, 2003; 20031108

**Sponsor:** Society of Neuroscience

**Document Type:** Meeting; Meeting Abstract

**Record Type:** Abstract

**Language:** English

11/3/4 (Item 4 from file: 5) Links

Fulltext available through: [USPTO Full Text Retrieval Options](#)

Biosis Previews(R)

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17355612 Biosis No.: 200300314331

**Regulated expression of ATF5 is required for the progression of neural progenitor cells to neurons.**

**Author:** Angelastro James M (Reprint); Ignatova Tatyana N; Kukekov Valery G; Steindler Dennis A; Stengren George B; Mendelsohn Cathy; Greene Lloyd A

**Author Address:** Columbia University College of Physicians and Surgeons, 630 West 168th Street, 15-401, New York, NY, 10032, USA\*\*USA

**Author E-mail Address:** [jma14@columbia.edu](mailto:jma14@columbia.edu)

**Journal:** Journal of Neuroscience 23 ( 11 ): p 4590-4600 June 1, 2003 2003

**Medium:** print

**ISSN:** 0270-6474 \_(ISSN print)

**Document Type:** Article

**Record Type:** Abstract

**Language:** English

11/3/5 (Item 5 from file: 5) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

Biosis Previews(R)

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16837032 Biosis No.: 200200430543

**Inhibition of apoptosis by ATFx: A novel role for a member of the ATF/CREB family of mammalian bZIP transcription factors**

**Author:** Persengiev Stephan P; Devireddy Laxminarayana R; Green Michael R (Reprint)

**Author Address:** Programs in Molecular Medicine and Gene Function and Expression, Medical School, Howard Hughes Medical Institute, University of Massachusetts, Worcester, MA, 01605, USA\*\*USA

**Journal:** Genes and Development 16 ( 14 ): p 1806-1814 July 15, 2002 2002

**Medium:** print

**ISSN:** 0890-9369

**Document Type:** Article

**Record Type:** Abstract

**Language:** English

11/3/6 (Item 6 from file: 5) [Links](#)

Fulltext available through: [American Society for Microbiology](#) [custom link](#) [USPTO Full Text Retrieval Options](#)

Biosis Previews(R)

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15096680 Biosis No.: 199900356340

**Human Cdc34 and Rad6B ubiquitin-conjugating enzymes target repressors of cyclic AMP-induced transcription for proteolysis**

**Author:** Pati Debananda; Meistrich Marvin L; Plon Sharon E (Reprint)

**Author Address:** Texas Children's Cancer Center, Baylor College of Medicine, 6621 Fannin St., MC 3-3320, Houston, TX, 77030, USA\*\*USA

**Journal:** Molecular and Cellular Biology 19 ( 7 ): p 5001-5013 July, 1999 1999

**Medium:** print

**ISSN:** 0270-7306

**Document Type:** Article

**Record Type:** Abstract

**Language:** English

? s ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (S) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL))) (S) (eGFP or (green (W) fluorescent (W) protein))

Processing

Processing

Processing

Processing

Processing

Processing

Processing

462026	DIFFERENTIATED
273438	DIFFERENTIATE
713823	MATURE
567629	MATURATION
2682336	NEURAL
14859605	CELL
30996	NEURAL (W) CELL
73981	ASTROCYTE
22099	ASTROGLIAL
14859605	CELL
2267	ASTROGLIAL (W) CELL
427188	NEURON
33012	OLIGODENDROCYTE
9729	OLIGODENDROGLIAL
14859605	CELL
967	OLIGODENDROGLIAL (W) CELL
51964	SCHWANN
14859605	CELL
27937	SCHWANN (W) CELL
24191	EGFP
751391	GREEN
695853	FLUORESCENT
9933324	PROTEIN
112562	GREEN (W) FLUORESCENT (W) PROTEIN

S12 407 S ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (S) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL))) (S) (EGFP OR (GREEN (W) FLUORESCENT (W) PROTEIN))

? S ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (S) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL))) (9n) (EGFP OR (GREEN (W) FLUORESCENT (W) PROTEIN))

Processing

Processing

Processing

Processing

Processing

Processing

Processing

462026	DIFFERENTIATED
273438	DIFFERENTIATE
713823	MATURE
567629	MATURATION
2682336	NEURAL
14859605	CELL
30996	NEURAL (W) CELL
73981	ASTROCYTE
22099	ASTROGLIAL

14859605	CELL
2267	ASTROGLIAL (W) CELL
427188	NEURON
33012	OLIGODENDROCYTE
9729	OLIGODENDROGLIAL
14859605	CELL
967	OLIGODENDROGLIAL (W) CELL
51964	SCHWANN
14859605	CELL
27937	SCHWANN (W) CELL
24191	EGFP
751391	GREEN
695853	FLUORESCENT
9933324	PROTEIN
112562	GREEN (W) FLUORESCENT (W) PROTEIN
S13	93 S ((DIFFERENTIATED OR DIFFERENTIATE OR MATURE OR MATURATION) (S) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN (W) CELL))) (9N) (EGFP OR (GREEN (W) FLUORESCENT (W) PROTEIN))

? ? s s13 not pd>030404

## Processing

>>>W: One or more prefixes are unsupported or undefined in one or more files.

93 S13  
12659842 PD>030404

S14 62 S S13 NOT PD>030404

? S s14 and ((DIFFERENTIATED OR DIFFERENTIATE ) (9n) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL))) (9N) (EGFP OR (GREEN (W) FLUORESCENT (W) PROTEIN))

Stop request submitted  
>>>P: Processing stopped

? S s14 and (((DIFFERENTIATED OR DIFFERENTIATE ) (9n) ((NEURAL (W) CELL) OR ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W) CELL) OR (SCHWANN(W) CELL))) (9N) (EGFP OR (GREEN (W) FLUORESCENT (W) PROTEIN)))

## Processing

## Engineering

462026	DIFFERENTIATED
273438	DIFFERENTIATE
2682336	NEURAL
14859605	CELL
30996	NEURAL (W) CELL
73981	ASTROCYTE
22099	ASTROGLIAL
14859605	CELL
2267	ASTROGLIAL (W) CELL
427188	NEURON
33012	OLIGODENDROCYTE
9729	OLIGODENDROGLIAL

14859605 CELL  
967 OLIGODENDROGLIAL (W) CELL  
51964 SCHWANN  
14859605 CELL  
27937 SCHWANN (W) CELL  
24191 EGFP  
751391 GREEN  
695853 FLUORESCENT  
9933324 PROTEIN  
112562 GREEN (W) FLUORESCENT (W) PROTEIN  
7 (DIFFERENTIATED OR DIFFERENTIATE) ... (9N) (EGFP OR  
GREEN (W) FLUORESCENT (W) PROTEIN)  
S15 1 S S14 AND (((DIFFERENTIATED OR DIFFERENTIATE) (9N) ((NEURAL (W) CELL) OR  
ASTROCYTE OR (ASTROGLIAL (W) CELL) OR NEURON OR OLIGODENDROCYTE OR (OLIGODENDROGLIAL (W)  
CELL) OR (SCHWANN (W) CELL))) (9N) (EGFP OR (GREEN (W) FLUORESCENT (W) PROTEIN)))

? t s15/medium

15/3/1 (Item 1 from file:357) [Links](#)

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0313138 DBA Accession No.: 2003-14278 PATENT

**New hair follicle stem cells, useful for treating neurological or degenerative disorders e.g., Alzheimer's or Parkinson's disease, age-related memory loss, hair loss, burns or aged skin, or for skin replacement cell culture medium and growth factor for use in disease therapy and tissue engineering**

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